

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 50.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001721**Date Inspected:** 30-Jan-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Jiangyin**Location:** Chang xing dao, Shanghai**Quality Control Contact:** Mr. Don walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating inspection**Bridge No:** 34-0006**Component:** See below**Bid Item:** 77, 78, 79**Lot No:** B #204**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE II coating inspector, Mr. Baskar Govindarajan arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE II coating inspector observed the following:

1. An inspection was requested for OBG Counter weight CW 32 and CW 34 for finish coat application inspection vide notification no. 2590. This Caltrans inspector observed, ABF Inspector Mr. Shi stone and Mr. Sun pointed out to ZPMC QC for improper curing of Interzink 52 which was applied in corner areas. This counterweight was not accepted for Final coat due to improper cure of mist coat. ZPMC has to resubmit the notification after proper curing of Interzinc 52. Ambient conditions were monitored and found to be within the parameters of contract documents.

2. An inspection was requested for surface preparation inspection for OBG connection weld seam internal ceiling part (partial) between 5AW to 5CW at OBG assembly yard, request no. 2584. This Caltrans inspector observed, ABF Inspector Mr. Sun, performing Blasting inspection of the specified areas. The same was found accepted by ABF after ZPMC attended the marked points for grinding and reblasting. Surface profile on the blasted areas measured by ZPMC by coarse grain method found to be 70 to 82 microns which is acceptable as per contract documents. Ambient conditions were monitored and found to be 5.1 deg. above dew point and the relative humidity found to be 41.4% over the specified area which is found to be within the parameters of contract documents. International protective coating technical service representative Mr. Peng Zi li was in attendance during the inspection process.

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3. An inspection was requested for Degreasing and cleaning of OBG segment 7DW, external and internal surface at OBG assembly yard, request no. 2589. This Caltrans inspector observed, the same was found accepted by ABF after ZPMC completed the Degreasing and cleaning works.

4. An inspection was requested for Traveler rail brackets-8 pieces and Following cat way channels vide notification no. 2592. The Catway channels are 1. CTTW1-P-2A,2B - 52 pieces each, 2. CATW6-P-2 a, b - 10 pieces each. This Caltrans inspector observed, ABF Inspector Mr. Shi stone performed the Blasting inspection and found all the Cat way channels have not been blasted properly and rejected all the pieces. 8 nos of Traveler rail brackets have been inspected for surface preparation and found accepted. Residual chloride test result found to be 20 us/cm which is acceptable as per contract documents. Ambient conditions were monitored and found to be within the parameters of contract documents.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

### Summary of Conversations:

No applicable conversations

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mr. Skyler Guest (15000422360), who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Baskar,Govindarajan	Quality Assurance Inspector
<b>Reviewed By:</b>	Clifford,William	QA Reviewer

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